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DATE MAILED: 12/13/2005

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/467,611		12/20/1999	GEORGE J. MIAO	INTL-0324-US	2610	
7590 12/13/2005				EXAMINER		
TIMOTHY N			NGUYEN, DUNG X			
TROP PRUNI 8554 KATY F			ART UNIT PAPER NUMBI			
HOUSTON,	TX 770	24	2638			

Please find below and/or attached an Office communication concerning this application or proceeding.

									
Office Action Community			Application No.		Applicant(s)				
			09/467,611		MIAO ET AL.				
	Office Action Summary	Ī	Examiner		Art Unit				
			Dung X Nguyen		2631				
Period fo	The MAILING DATE of this communic or Reply	cation appe	ears on the cover sheet ·	with the co	orrespondence ad	ddress			
THE - Exte after - If the - If NO - Faile Any	MAILING DATE OF THIS COMMUNIC msions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136 inication. days, a reply v utory period wil rill, by statute, o	S(a). In no event, however, may within the statutory minimum of t Il apply and will expire SIX (6) M cause the application to become	r a reply be time thirty (30) days ONTHS from the ABANDONED	ely filed will be considered time he mailing date of this o	ely. communication.			
Status									
1)⊠	Responsive to communication(s) filed	l on <u>29 <i>Ap</i></u>	<u>ril 2005</u> .						
2a)⊠	This action is FINAL . 2t	b) This a	action is non-final.						
3)	_								
Dianosit		c ander Ex	parte quayre, 1000 C	7.D. 11, 40.	0.0.210.				
	ion of Claims								
	Claim(s) <u>1 - 18 and 20 - 30</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>16 - 18 and 20 - 30</u> is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1</u> is/are rejected.								
7)🖂	Di⊠ Claim(s) <u>2 - 15</u> is/are objected to.								
8)	Claim(s) are subject to restricti	on and/or	election requirement.						
Applicat	ion Papers								
9)[The specification is objected to by the	Examiner.							
10)🖂	The drawing(s) filed on <u>20 December 1999</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objecti								
	Replacement drawing sheet(s) including the					, <i>,</i>			
11)[The oath or declaration is objected to I	by the Exa	miner. Note the attach	ed Office	Action or form P	ΓΟ-152.			
Priority (ınder 35 U.S.C. § 119								
	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:		•	. § 119(a)-	(d) or (f).	•			
	1. Certified copies of the priority de								
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	3. Copies of the certified copies of			en received	l in this National	Stage			
* 5	application from the Internationa See the attached detailed Office action		• • • • • • • • • • • • • • • • • • • •	ot rappiyad	•				
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Attachmen	t(e)								
	e of References Cited (PTO-892)		4) Interview	v Summary (f	PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTC	O-948)	Paper No	o(s)/Mail Date	ə·.				
	nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	TO/SB/08)	5) Notice of 6) Other: _		tent Application (PT0)-152)			

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Response to Arguments

1. Applicant's arguments filed on September 06, 2005 have been fully considered and are not persuasive. However, upon further consideration, a new ground(s) of rejection is made in view of new reference(s).

The situation is: Adapted to implement a Global System for Mobile communication mode as recited in claim 1, lines 3 and 4 is not given weight when it simply expresses the intended result of a process step positively recite. See MPEP 2111.04 (R-3).

Claim Objections

2. Claim 1 is objected to because of the following informalities: N as recited in line 2 and 3 must be defined such as wherein N is integer, greater than or equal two. Appropriate correction is required.

Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Farhan (US patent # 6,433,906 B1).

Regarding claim 1, Farhan discloses (figure 3):

- First digital decimation filter (310) with N bands (column 4, lines 25 – 29).;

Second digital decimation filter (318, digital filter can be made a decimation filter) rejects some frequency bands coupled to the first digital decimation filter (310) (column 4, lines 3 - 36).

Farhan differs from the instant claimed invention that it does not state that a second decimation filter to reject N-1 bands coupled to the first digital decimation filter.

However, Farhan discloses (figure 3) that adaptive digital filter (318, digital filter can be made a decimation filter) coupled to the first digital decimation filter (310) to perform out-ofband reject of some bands (column 4, lines 3 - 36), Farhan suggestion does not place a limit on the in-band filters. Hence it would have been obvious to one of ordinary skill in the art to implement Farhan's teaching to provide the requirements of the instant claimed invention as a matter of designed choice to limit the number of filters to N-1 since it would depend on the number of filter bands.

Allowable Subject Matter

- 5. Claims 2 – 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 16 - 18 and 20 - 30 are allowed. The following is a statement of reasons for the indication of allowable subject matter:

Regarding to the claimed invention, the prior art of record fails to show or render obvious of a method and its corresponding apparatus, comprising:

Providing a first filtering stage and a second filtering stage;

Selectively programming the first stage to filter a W-CDMA signal or a GSM communication signal;

Using the second stage to filter the GSM communication signal;

Detecting the type of signal that has been received;

Adapting the first and second stages to the type of detected signal; and

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Selectively using the first and second stages based on the type of the detected signal.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010. The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Vanderpuye Kenneth N. can be reached on (571) 272-3078. The fax phone numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

November 23, 2005

SUPERVISORY PATENT EXAMINER